



Australian Bureau of Statistics

CensusAtSchool Australia

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Resources



CaSQ 7 - Split Stem and Leaf Plot for Hours Slept

You can download this activity as a rich text file (RTF) using the link at the bottom of the page.

How to: Get a Random Sample from CensusAtSchool

Go to the CensusAtSchool Random Sampler to download a sample.

Reference year: *(select year)* **Sample size:** *At least 40 students containing both males and females*

Select questions: *Hours of sleep*

Location: *Select location* **Year level:** *(select a range of year levels)*

To protect privacy there is a rule built into the sampler that the requested sample size cannot exceed 10% of the respondents for the parameters entered.

Task:

1. In the CensusAtSchool random sample find data for Hours of Sleep on a School night. Record the values below.

NOTE: Any obvious outliers should be removed from your data set before you complete this activity.

2. In the questionnaire 0 - 16 hours of sleep can be entered. What are the only possible stems we can have for this data?

NOTE: Stem and leaf plots are useful to see patterns in the data. However, when the data is not spread out this pattern becomes difficult to see. To get around this the stems

can be split. e.g. numbers from 10 to 19 are split into stems of 1 (for numbers 10 to 14), and 1* (for numbers 15 to 19)

3. Place your data into the following stem and leaf plots. Don't forget to show your key.

Hours slept

Unordered stem and leaf			Ordered stem and leaf	
0			0	
0*			0*	
1			1	
1*			1*	

Key:

4. From your ordered stem and leaf plot comment on the most common number of hours spent sleeping on a school night.

5. Name two ways this investigation could be extended.

Download the Activity: [RTF](#)

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